

UNIT TERMINAL OBJECTIVE

- 1-4 At the completion of this unit, the EMT-Critical Care Technician student will be able to safely and precisely access the venous circulation and administer medications.

COGNITIVE OBJECTIVES

At the completion of this unit, the EMT-Critical Care Technician student will be able to:

- 1-4.1 Review the specific anatomy and physiology pertinent to medication administration. (C-1)
- 1-4.2 Review mathematical principles. (C-1)
- 1-4.3 Review mathematical equivalents. (C-1)
- 1-4.6 Calculate oral and parenteral drug dosages for all emergency medications administered to adults, infants and children. (C-2)
- 1-4.7 Calculate intravenous infusion rates for adults, infants, and children. (C-2)
- 1-4.9 Discuss the "six rights" of drug administration and correlate these with the principles of medication administration. (C-1)
- 1-4.10 Discuss medical asepsis and the differences between clean and sterile techniques. (C-1)
- 1-4.11 Describe use of antiseptics and disinfectants. (C-1)
- 1-4.12 Describe the use of universal precautions and body substance isolation (BSI) procedures when administering a medication. (C-1)
- 1-4.13 Describe the indications, equipment needed, techniques utilized, precautions, and general principles of peripheral venous cannulation **(Including saline locks)**. (C-1)
- 1-4.14 Describe the indications, equipment needed, techniques utilized, precautions, and general principles of intraosseous needle placement and infusion. (C-1)
- 1-4.15 Describe the indications, equipment needed, techniques utilized, precautions, and general principles of administering medications by the inhalation route **(Including endotracheal route)**. (C-3)
- 1-4.16 Differentiate among the different dosage forms of oral medications. (C-3)
- 1-4.17 Describe the equipment needed and general principles of administering oral medications. (C-3)
- 1-4.18 Describe the indications, equipment needed, techniques utilized, precautions, and general principles of rectal medication administration. (C-3)
- 1-4.19 Differentiate among the different parenteral routes of medication administration. (C-3)
- 1-4.20 Describe the equipment needed, techniques utilized, complications, and general principles for the preparation and administration of parenteral medications. (C-1)
- 1-4.22 Describe the purpose, equipment needed, techniques utilized, complications, and general principles for obtaining a blood sample. (C-1)
- 1-4.23 Describe disposal of contaminated items and sharps. (C-1)
- 1-4.24 Synthesize a pharmacologic management plan including medication administration. (C-3)
- 1-4.25 Integrate pathophysiological principles of medication administration with patient management. (C-3)

AFFECTIVE OBJECTIVES

At the completion of this unit, the EMT-Critical Care Technician student will be able to:

- 1-4.26 Comply with EMT-Critical Care Technician standards of medication administration. (A-1)
- 1-4.27 Comply with universal precautions and body substance isolation (BSI). (A-1)

PSYCHOMOTOR OBJECTIVES

At the completion of this unit, the EMT-Critical Care Technician student will be able to:

- 1-4.32 Use universal precautions and body substance isolation (BSI) procedures during medication administration. (P-2)

New York State EMT-Critical Care Refresher Curriculum

Adapted from the United States Department of Transportation

EMT-Intermediate: National Standard Curriculum

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- 1-4.33 Demonstrate cannulation of peripheral veins **(Including saline locks)**. (P-2)
- 1-4.34 Demonstrate intraosseous needle placement and infusion. (P-2)
- 1-4.35 Demonstrate clean technique during medication administration. (P-3)
- 1-4.36 Demonstrate administration of medications by the inhalation route **(Including endotracheal route)**. (P-2)
- 1-4.37 Demonstrate administration of oral medications. (P-2)
- 1-4.38 Demonstrate rectal administration of medications. (P-2)
- 1-4.39 Demonstrate preparation and administration of parenteral medications. (P-2)
- 1-4.40 Demonstrate preparation and techniques for obtaining a blood sample. (P-2)
- 1-4.41 Perfect disposal of contaminated items and sharps. (P-3)